

[Aquaculture Method and System for Producing Aquatic Species]

Abstract

The invention provides a method and system for producing aquatic specie for consumer consumption within a closed aquaculture system. It provides for growing algae in artificial saltwater under controlled conditions in an algae subsystem, feeding the algae to adult artemia for producing small artemia in an artemia subsystem, feeding the algae and small artemia to immature aquatic specie for producing adolescent aquatic specie in an aquatic specie nursery subsystem, and feeding the algae and small artemia to the adolescent aquatic specie to for producing adult aquatic specie in an aquatic specie growout subsystem, which are then harvested. The invention also includes a data acquisition and control subsystem for automated control of the aquaculture system. A unique filtration subsystem accepts waste from the aquatic specie subsystem, pumps the waste through a series of filters, and returns the filtered saltwater to the algae subsystem, the artemia subsystem and the aquatic specie subsystem.